

## PATENT ABSTRACTS OF JAPAN

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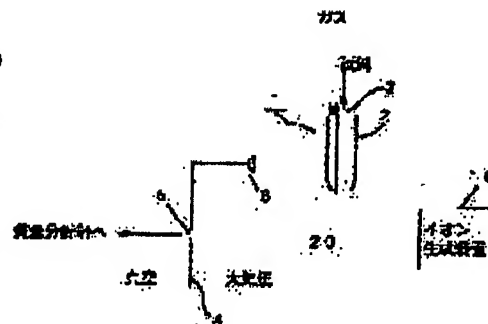
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### (54) ESI IONIZATION DEVICE

#### (57)Abstract:

**PROBLEM TO BE SOLVED:** To reduce the valence number of the multivalent ion generated at an ESI ion source.

**SOLUTION:** Cations are generated at the ESI ion source 1 and move to an counter electrode 4. An ion generation device 10 generates anions with reversed polarity with respect to ions generated by the ESI ion source 1. The anions generated by the ion generation device 10 move to the counter electrode 4. The cations generated at the ESI ion source 1 and the anions generated at the ion generation device 10 are mixed in a reaction space 20 and are made to react. With the above, the valence number of the positive multivalent ions generated at the ESI ion source 1 is enabled to reduce. Such an ion generation device 10 is equipped with an electrode for corona discharge, and has an ion generating means similar to the APCI ion source, generating ions by the APCI method (atmospheric pressure chemical ionization).



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